



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

(A Centre of Excellence)

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

**UNIVERSITY EXAMINATION FOR DEGREE IN BACHELOR OF TECHNOLOGY
IN INFORMATION TECHNOLOGY
(BSC. IT)**

ICS 2203: INTRODUCTION TO THE INTERNET

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: OCTOBER 2012

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consist of **FIVE** questions

Answer question **ONE** and any other **TWO** questions

Maximum marks for each part of a question are as shown

This paper consists of **THREE** printed pages

SECTION A (COMPULSORY)

Question One (30 marks)

- a) Outline the history of the internet. **(4 marks)**
 - b) Explain the internet infrastructure. **(3 marks)**
 - c) Differentiate between the www components. **(4 marks)**
 - d) Explain the meaning of the following messages. **(3 marks)**
DELETE
TRACE
OPTIONS

 - e) Outline the advantages of Three-tier architecture. **(3 marks)**
 - f) Explain the design goal for Internet Information Server. **(3 marks)**
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- g) Explain the life-cycle model. (6 marks)
- h) Explain the importance of W3C HTML validation service. (2 marks)
- i) Write an HTML code for E-mail link. (2 marks)

SECTION B (Answer Any Two Questions)

Question Two (20 marks)

- a) Explain the table elements. (3 marks)
- b) Write HTML code to create a table using the following data. (12 marks)

Name	Maths	Physics	English	Chem
Rose	50	80	75	65
John	70	65	60	70
David	60	50	70	50
Gladys	65	70	50	70
Ivan	75	80	70	80

- c) Write HTML code to create hyperlinks for all the students for their curriculum vitae. (5 marks)

Question Three (20 marks)

- a) (i) Define the term stylesheets. (2 marks)
- (ii) Outline the **THREE** methods of adding style rules in HTML. (3 marks)
- (iii) With a suitable example explain the style rule basic parts. (3 marks)
- (iv) Outline the advantages and disadvantages of methods of adding style rules in HTML. (4 marks)
- b) Write suitable HTML code to output the following:

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Web Engineering
A. HTML
  I Basic HTML
  II Advanced HTML
    1. Cascading Stylesheets
    2. Image Maps
    3. Forms

B. Javascript

C. Advanced Topics

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Question Four (20 marks)

- a) Explain each of the following customized markup languages. (8 marks)
- MathML
- Wireless Markup Language (WML)
- Electronic Business XML (eb XML)
- Financial Products Markup Language (FPML)
- Discuss the categories of user characteristics.

b) Compare between HTML and XML by looking at the drawbacks and strengths of each. (12 marks)

Question Five (20 marks)

a) Explain the meaning of the following HTML codes:

- Background = "Location_of_image"
- BG COLOR = "Name of Color"
- LINK = "Name of Color"
- VLINK = "nam of Color"

b) Write suitable HTML code that gives the output below.

Which fruit do you like?

	Apple
	Mango
	Orange
	Guava

(8 marks)

c) (i) What is a frame

(ii) Write suitable HTML code for the following frame.

(6 marks)

Figure 1